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[Hardening and protection of parts against corrosion by  
the chemical nickel coating method] Uprochnenie i zashchita  
ot korrozii detalei metodom khimicheskogo nikelirovaniia.  
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CZECHOSLOVAKIA

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Prague, Vnitřní Lékarství, No 9, 1964, pp 871-874

"The Metabolism of Lipides in Obesity. III. Effect of Fat Ingestion on Esterified Fatty Acids,  $\beta$ -Lipoproteins and Ketone Bodies of Blood."

S/129/60/000/011/009/016  
E073/E535

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TITLE: Protection of Pearlitic Steels Against High Temperature  
Gas Corrosion <sup>16</sup>

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov,  
1960, No.11, pp.39-42

TEXT: The authors investigated chemical nickel plating<sup>18</sup> of  
the refractory steel 15XMFKP (15KhMFKR) of the following  
composition: 0.15% C, 0.21% Si, 0.48% Mn, 1% Cr, 1.1% Mo, 1.4% Co,  
0.3% V, 0.006% B, 0.02% S, 0.03% P. After washing in benzine,  
degreasing with Vienna lime and etching in a 50% hydrochloric acid  
solution, the specimens were subjected to chemical nickel plating  
at 90 to 92°C in a solution containing 21 g/litre of nickel  
chloride, 24 g/litre sodium hypophosphate, 10 g/litre sodium acetate,  
pH = 4.8-5.3. The plating solution was renewed every hour. Chemical  
analysis showed that the deposited layer contained 7.5 to 9% P. To  
obtain a high bond strength between the coating and the steel and to  
improve its mechanical properties, the specimens were heat  
treated at 400°C for 1 hour. The coatings remained fully  
Card 1/3 ✓

S/129/60/000/011/009/016  
EO73/E535

### Protection of Pearlitic Steels Against High Temperature Gas Corrosion

conserved without any traces of failure or cracking after 90° bending of the specimen. Investigation of the corrosion stability was carried out in air and super-heated steam at 650°C for 1000 hrs, with intermediate removal of the specimens after 50, 100, 200 and 500 hours. The following conclusions are arrived at:

- 1) No structure was revealed in the coating layer prior to heat treatment.
- 2) After heat treatment a layering of the coating was observed, which is attributed to the periodic nature of the deposition of the coating. ✓
- 3) After tests involving holding the specimens at 650°C in steam and in air, the structure of the layer consisted of a solid solution of P in nickel with inclusions of particles of the excess phase  $\text{Ni}_3\text{P}$ , which with increasing temperature or increasing holding time at the given temperature becomes less disperse.
- 4) After holding for 1000 hours at 650°C, the coatings maintained a relatively high hardness ( $H_v = 728$ ) below the oxide film and, therefore, this type of plating is promising for components which are exposed to friction under normal and elevated temperatures.

Card 2/3

S/129/60/000/011/009/016  
E073/E535

Protection of Pearlitic Steels Against High Temperature Gas Corrosion

5) A Ni-P coating of a thickness of 30-50  $\mu$  ensures stable protection against gas corrosion of low alloy high strength pearlitic steels which operate in air and in super-heated steam at temperatures up to 650°C.

6) As a result of oxidation, an oxide film of extremely high hardness forms on the surface of chemically nickel plated specimens, particularly as a result of exposure to super-heated steam.

Therefore, this type of coating is especially suitable for components subjected to friction and, in the first instance, for steam turbine fittings. There are 3 figures, 1 table and 1 Soviet reference.

ASSOCIATION: TsNIITMASH

Card 3/3

ACC NR: AM6008491

Monograph

UR/

Ryabchenkov, Aleksey Vasil'yevich; Velemitsina, Valeriya Ivanovna

Hardening and protecting parts against corrosion by the nickel plating method  
(Uprocheniye i zashchita ot korrozii detaley metodom khimicheskogo nikelirovaniya)  
Moscow, Izd-vo "Mashinostroyeniye", 65. 0127 p. illus., biblio. 4,000 copies  
printed.

TOPIC TAGS: anticorrosion agent, heat resistant material, nickel plating, surface  
hardening, austenitic steel, carbon steel, pearlitic steel, steam turbine

PURPOSE AND COVERAGE: This book describes the surface hardening and protection of  
parts from corrosion in power equipment and other types of equipment by nickel plating.  
Also shown is the techniques of applying nickel-phosphorus coatings to heat resistant  
pearlitic and fire-resistant austenitic steel. The book discusses structural stabi-  
lity, protection and hardening properties of the surface under high temperatures. Re-  
sults are given from tests made of parts with nickel-phosphorus surfaces as well as an  
experiment for industries use of this nickel plating method. The book is recommended  
for workers in industrial laboratories, technicians and assistants in the field of anti-  
corrosion technology and surface hardening of machine parts.

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Card 2/2

VISHENKOV, S.A.; VELEMITINA, V.I.

Hardening machine part surfaces by chemical nickel plating.  
Trudy Sem.po kach.poverkh. no.5:14(-155 '61. (MIRA 15:10)  
(Nickel plating)



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 ACCESSION NO. A 14070684 S/O:29/64/003/004/0021/0024

AUTHOR Ryabchenkov, A. V.; Velemitina, V. I.

TITLE: Nickel plating chromium nickel austenitic steel

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 4, 1964,

21-24; A 14070684

TOPIC TAGS perlitic steel; austenitic steel; chrome plating; treatment; forging; plating; oxide film; metal wear; metal wearability; diffusion layer; metal wearability

ABSTRACT: Perlitic steel is unsuitable for the production of steam turbine parts working at 540-600°C and made of austenitic steel is also unsuitable for that purpose because of its poor wearability. These considerations prompted the development of a chemical method of nickel-plating high-alloy chrome nickel austenitic steel (Kh18N9T and KhN35VT). But this type of steel is usually covered with an oxide film during its processing. This film prevents the adhesion of the plating. In order to remove the oxide film, various chemical etching methods were used to remove the oxide film but none of them Cord 1,2

L 10529-65  
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produced the desired results. Satisfactory results were finally achieved in the case of the mentioned steel samples by (i) washing them in gasoline; (ii) electrochemical degreasing in a standard alkaline solution at 70°C for 5-7 min.; (iii) washing them in hot and cold water; (iv) cathode processing in a 20-25% solution of caustic soda at 70-80°C for 5-6 minutes until an even thin brown layer appears, and a number of other methods. A study of the increased hardness produced by the nickel plating process justifies its recommendation for the improvement of the wearability of austenitic steel. Our new nickel-plating process is now used at the Venikovskiy plant in the production of important parts for steam turbines which must be highly wear resistant and scratchproof. (The chemical method of nickel plating is described in the patent application No. 151,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279,280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351,352,353,354,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392,393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518,519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,650,651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949,950,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,980,981,982,983,984,985,986,987,988,989,990,991,992,993,994,995,996,997,998,999,1000,1001,1002,1003,1004,1005,1006,1007,1008,1009,1010,1011,1012,1013,1014,1015,1016,1017,1018,1019,1020,1021,1022,1023,1024,1025,1026,1027,1028,1029,1030,1031,1032,1033,1034,1035,1036,1037,1038,1039,1040,1041,1042,1043,1044,1045,1046,1047,1048,1049,1050,1051,1052,1053,1054,1055,1056,1057,1058,1059,1060,1061,1062,1063,1064,1065,1066,1067,1068,1069,1070,1071,1072,1073,1074,1075,1076,1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087,1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103,1104,1105,1106,1107,1108,1109,1110,1111,1112,1113,1114,1115,1116,1117,1118,1119,1120,1121,1122,1123,1124,1125,1126,1127,1128,1129,1130,1131,1132,1133,1134,1135,1136,1137,1138,1139,1140,1141,1142,1143,1144,1145,1146,1147,1148,1149,1150,1151,1152,1153,1154,1155,1156,1157,1158,1159,1160,1161,1162,1163,1164,1165,1166,1167,1168,1169,1170,1171,1172,1173,1174,1175,1176,1177,1178,1179,1180,1181,1182,1183,1184,1185,1186,1187,1188,1189,1190,1191,1192,1193,1194,1195,1196,1197,1198,1199,1200,1201,1202,1203,1204,1205,1206,1207,1208,1209,1210,1211,1212,1213,1214,1215,1216,1217,1218,1219,1220,1221,1222,1223,1224,1225,1226,1227,1228,1229,1230,1231,1232,1233,1234,1235,1236,1237,1238,1239,1240,1241,1242,1243,1244,1245,1246,1247,1248,1249,1250,1251,1252,1253,1254,1255,1256,1257,1258,1259,1260,1261,1262,1263,1264,1265,1266,1267,1268,1269,1270,1271,1272,1273,1274,1275,1276,1277,1278,1279,1280,1281,1282,1283,1284,1285,1286,1287,1288,1289,1290,1291,1292,1293,1294,1295,1296,1297,1298,1299,1300,1301,1302,1303,1304,1305,1306,1307,1308,1309,1310,1311,1312,1313,1314,1315,1316,1317,1318,1319,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S/137/62/000/006/142/163  
A057/A101

AUTHORS: Vishenkov, S. A., Velemitsina, V. I.

TITLE: Strengthening of the surface of machine parts by the method of chemical nickel plating

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 6, 1962, 94 - 95, abstract 6I599 (V sb. "Kachestvo poverkhnosti detaley mashin. Sb. 5", Moscow, AN SSSR, 1961, 146 - 155)

TEXT: The coatings were applied on the parts in an acidic solution of the composition (in g/l):  $\text{NiCl}_2$  21, Na-hypophosphite 24, Na-acetate 10, pH 5.0 - 5.3, temperature of the bath 90 - 92°C, or in an alkaline solution of the composition (in g/l):  $\text{NiCl}_2$  21, Na-hypophosphite 24,  $\text{NH}_4\text{Cl}$  30, Na-citrate 45 and 25% solution of ammonia 50 - 60 ml/l; pH 8.3 - 8.5, temperature of the bath 85 - 88°C. Coatings obtained from the acidic solution contained 5% P, and from the alkaline solution 9% P. The coatings were tested on resistance to wear, antifriction properties, resistance to galling, and resistance to gas corrosion at high temperatures. Chemical nickel plating yields coatings which strengthen considerably

Card 1/2

Strengthening of...

S/137/62/000/006/142/163  
A057/A101

steel and Al-articles. The life of the articles increases 2-3 times. Ni-P-coat-  
ings can be applied to articles of any shape.

Ye. Layner

[Abstracter's note: Complete translation]

Card 2/2

RYABCHENKOV, A.V., doktor khim.nauk prof.; VELEMITSINA, V.I., inzh.

Protection of pearlitic steels from high temperature gaseous corrosion. Metalloved. i term. obr. met. no. 11:39-42 N '60.

(MIRA 13:12)

1. Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya.

(Steel--Corrosion)

(Metal cladding)

VELEND V

2

L 42065-65 EMT(m)/ENG(m)....RWH/RH

ACCESSION NR: AP5010917

UR/0286/65/000/007/0103/0103

AUTHORS: Bakhsunn, R.; Krans, U.; Roytar, Kh.; Shvakhula, G.; Varnake, B.;  
Veland, V.; Vol'f, V.

TITLE: A method for obtaining anionites. Class 39, No. 169785/5

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 103

TOPIC TAGS: anionite, monomer, polymer, vinyl, copolymerisation, copolymer solubility, alkyl, organic solvent, amination

ABSTRACT: This Author Certificate presents a method for obtaining anionites by copolymerization of one or several monovinyl aromatic substances with one or several bonding agents. This is followed by introducing a haloid alkyl and by amination during which copolymerization is conducted in the medium of organic solvents in which monomers are soluble, while polymers are practically insoluble. To increase the thermal stability of the strong sorbents, the solvents are added in the amounts of 0.25-10% by weight of the monomers.

ASSOCIATION: none

Card 1/2

L 42064-65 EWT(m)/EWG(m) RVH/RM

2

ACCESSION NR: AP5010918

UR/0286/65/000/007/0103/0103

AUTHORS: Bakhtmann, R.; Kraus, U.; Royter, Kh.; Shvakhula, G.; Varneke, D.,<sup>14</sup>  
Volend, V.; Vol'f, F. <sup>8</sup>

TITLE: A method for obtaining sulfocationites. Class 39, No. 169786 <sup>15</sup>

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 103

TOPIC TAGS: sulfocationite, polymer, monomer, sulfonation, vinyl, epoxy, initiator, organic solvent

ABSTRACT: This Author Certificate presents a method for obtaining sulfocationites by sulfonating a copolymer of one or several monovinyl aromatic compounds with one or several bonding agents containing vinyl or epoxy groups. The copolymerization is conducted in the presence of initiators in the medium of an organic solvent. To obtain mechanically strong sorbents, the organic solvent is added during polymerization in the amount of 0.25-5% by weight of the monomers.

ASSOCIATION: none

SUBMITTED: 01Nov63

ENCL: 00

SUB CODE: 00, 00

NO REF SOV: 000

OTHER: 000

Card 1/1 *am*

VALENETS, I., podpolkovnik.

Evaluating fire from small arms. Voen. vest. 37 no.1:60-63 Ja '58.  
(Shooting, Military) (MIRA 11:2)



VELENETS, I., podpolkovnik.

"Cap" device for night firing. Voen. vest. 37 no.3:69-70 Mr '58.  
(Firearms--Sights) (WIRA 11:3)

VELENETS, I., gvardii podpolkovnik

How to improve fire training. Voen. vest. 39 no.9:72-74 S '59.  
(MIRA 12:12)

(Shooting, Military)

VELENETS, I., podpolkovnik

Rifle company of the second echelon in attack. Voen. vest. 38  
no. 8:26-30 Ag '58.

(MIRA 11:7)

(Infantry drill and tactics)

(Attack and defense(Military science))

VZLENITS, I., podpolkovnik

Rifle platoon in bivouac security. Voenn. vest. 39 no. 1:21-26  
Ja '60. (MIRA 14:2)

(Guard duty)

VELENETS, L.

Heroic decade. Inform. biul. VDNKH no. 11:22-26 N '64.

(MIRA 18:2)

*VELINKINA, Kh. L.*  
VELINKINA, Kh. L., doktor med. nauk

"Problems in hygiene for preschool children" by S.K.Kunin. Reviewed  
by Kh. L. Vilenkina. Gig. i san. 22 no. 9:89-90 S '57. (MIRA 10:12)  
(CHILDREN--CARE AND HYGIENE) (KUNIN, S.K.)

B/081/61/000/019/025/085  
B101/B144

AUTHORS: Miroshnichenko, L. A., Veleshina, T. A.

TITLE: Selenium and tellurium in the polymetallic deposits of Central Kazakhstan

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19, 1961, 92 - 93, abstract 19G97 (Vestn. AN KazSSR, no. 1, 1961, 15 - 21)

TEXT: The principal accumulation of Se and Te is observed in formations of skarn deposits with Pb-Zn, Cu, and Bi mineralization. Rare and small amounts of Se and Te occur in the skarn, quartz vein, baryte, and metasomatic Pb and Pb-Zn formations. As to the epoch of their origin, the polymetallic formations enriched with Se and Te belong to the early and late Variscian metallogenetic epochs. Major Se and Te concentrations could not be established so far in the polymetallic deposits of the Caledonian. All deposits of Central Kazakhstan having higher selenium and tellurium contents are situated in the ore deposits of Akchagyl, Karagayly, Batystau, Berkarin. The principal collector mineral for Se and Te proves to be the galenite of skarn deposits (for Akchagyl:

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Selenium and tellurium...

S/081/61/000/019/025/085  
B101/B144

Se 0.013, Te 0.004%). Se and Te rarely occur in sphalerite, pyrite, chalcopyrite, and are altogether absent in pyrrhotite and arsenopyrite. Major Se and Te contents were established in galenite of quartz vein greisen quartz-baryte-gold ore formations (Se 0.01 - 0.02, Te 0.007 - 0.004%). In galenite of gold ore deposits the ratio Te : Se is 4 : 1, in rare metal deposits Se : Te is 2.5 : 1. In the majority of galenite samples from all deposits, Se > Te. The average ratio Se : Te is 1 : 2. The higher concentration of Se and Te in sulfites, and particularly in galenite, is explained by the presence of microinclusions of compounds formed by these elements with Bi (predominantly in case of Te) and with Ag (in case of Se). Isomorphism with S plays an insignificant role. [Abstracter's note: Complete translation.] ✓

Card 2/2



VELSEN'KIY, L.I.; DULITSKAYA, R.A.; YEYGES, Ye.G.

Correlation between tensile strength and the angle of inclination of the macromolecular chains in cotton fibers. Khim. i Fiz.-Khim. Vysokomolekul. Soedineniy, Doklady 7-oy Konf. Vysokomolekul. Soedineniyam '52, 250-4.  
(CA 47 no.18:9609 '53) (MLRA 5:7)

VEKLENKO, V. master

New materials and products. Stroitel' no.3:19-20 Mr '59.  
(MIRA 12:6)  
(Building materials)

RJ AM

VELINOVSKÝ (J.). *Novitates mycologicae novissimae*. (The latest new mycological finds.)—Botanical Society of Czechoslovakia, Prague, 158 pp., 1 pl., 1947.

This contribution (Volume IV of 'Opera Botanica Cechica') to the study of Czechoslovakian Discomycetes (60 pp.) and Basidiomycetes, chiefly Agaricaceae (74 pp.) and a few Polyporaceae, Clavariaceae, and Gasteromycetes, comprises Latin descriptions of genera and species, several of the former and a very large number of the latter being new.

7d AM

VELENČVART (J.). Velenovský species novae Basidiomycetum.—301 [+17] pp.,  
1 pl., Prague, Botanical Society of Czechoslovakia, Antonín Lapáček, 1948.  
200 Kčs, £1, or \$4.

This publication, by the Botanical Society of Czechoslovakia to commemorate Velenovský's ninetieth birthday, lists his published works and gives diagnoses, translated into Latin by A. Pilát, of some 800 species of fungi described as new by Velenovský in Czech in *České houby* (Fungi Bohemiae), 1920-2. Some 700 of these new species are agarics, the remainder other Hymenomycetes, Gastromycetes, and two Ascomycetes. Supplementary to each group and genus are listed the new genera and species of Basidiomycetes published in *Novitates Mycologicae*, 1939, and *Novitates Mycologicae Novissimae*, 1947 [*R.A.M.*, xxvi, p. 421].

VELEROVSKY, JOSEF.

VELEROVSKY, Josef. Veleroovskyi species novae basidiomycetum quae in opere "Ceske houby" (Fungi Bohemiae), annis 1920-22 in lingua bohemia edito, descripsit. In lingua latinam tradidit A. Pilot. Prague, Societas botanica czechoslovaca, 1948. 391, (15) p. (Opera botanica czechica, v. 6) (Veleroovsky's new species of basidiomycetes described in his work Ceske houby (Fungi of Bohemia), which was published in Czech in 1920)22. In Latin. Tr. from the Czech. Front. (part))

McU Not in DLC  
VELEROVSKY, JOSEF  
SCIENCE  
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

VELENSKI, G.S.

EXCERPTA MEDICA Sec.2 Vol.9/8 Physiology, etc. Aug56

3634. VELENSKI G.S. Lab. of Physiol. of Digestion; Dept. of gen. Physiol., Inst. of exp. Med. AMN, SSSR, Leningrad. \*Physiological mechanism of cortical regulation of the peripheral blood composition (Russian text) FIZIOL. Z. 1955, 41/6 (765-770) Illus. 2

Subcutaneous injection of nucleic acid produced in dogs a diphasic volume change of the subcutaneously-implanted spleen, plethysmographically recorded, which was paralleled by a diphasic change in the blood composition: an initial decrease of leucocytes and thrombocytes was followed by an increase. On this basis, a conditioned reflex was obtained to an acoustic stimulus (metronome beat at 60/min.) preceding the unconditioned stimulus (injection of nucleic acid) by 30 sec. A differential inhibition was obtained to a higher rate of metronome beats (120/min.). It is concluded that the cerebral cortex plays an important part in the regulation of spleen activity and the composition of the peripheral blood.

Simonson - Minneapolis, Minn.

VELENSKIY, L.

VELENSKII, Ladislav.

People ensure victory. Vsen.prof.dvish. no.12:29-31 Ag '54.  
(MLRA 7:9)

(Czechoslovakia--Efficiency, Industrial) (Efficiency, Industrial--Czechoslovakia)

~~VELENTOVA, VLASTA~~

KOJANOVSKA, Kvetu; TEICHMANN, Vladimir; KRALOVA, Libuse; MANDAKOVA, Tamara;  
VELENTOVA, Vlasta

The influence of mechanical stimulation of the stomach on the bile  
ducts. Sborn. lek. 60 no.2:50-59 Feb 58.

1. II. interni klinika fakulty vseobecneho lekarstvi university  
Karlovy v Praze, prednosta prof. Dr. Frantisek Herles. K. J. II.  
interni klinika, U nemocnice 2, Praha 2.

(STOMACH, physiology

mechanical stimulation, eff. on bile ducts (Cz))

(BILE DUCTS, physiology

eff. of mechanical stimulation of stomach on bile ducts (Cz))



DEMIDOV, A., polkovnik; MAL'GINOV, N., polkovnik; VALENETS, I., gvardii  
podpolkovnik; VISHNIKOV, V., gvardii podpolkovnik; IONOV, G., pod-  
polkovnik

Tank attack accompanied by the motorized infantry team; replies  
to an article published in no.1, 1959. Voen.vest. 39 no.4:30-  
37 Apr '59. (MIRA 12:7)  
(Infantry drill and tactics)

VELENTSEY, E.V.

99-3-9/28

AUTHOR: Baklagin, A.I. (Cand.Chem.Sci.), Velentsey, E.V. (Engineer) & Soboleva, N.F. (Engineer).

TITLE: The basis for standards for sampling residues of the gas shale and shale treating industries. (Obosnovaniye norm otbora prob ochagovylkh ostatkov gazoslantsevoy i slantsepererabatyvayushchey promyshlennosti.)

PERIODICAL: Teploenergetika, 1958, No.3. pp. 33-36 (USSR)

ABSTRACT: So far there has been no theoretical justification for the frequency of sampling in the shale industry and the existing rules are entirely empirical. In the gas-shale and shale-treating industries many samples must be taken from the coke-ash residue of retorts and the ash of generators. The frequency of sampling may be based on the same rules as are used for solid fuels. Many investigators have shown that sampling of solid fuel is a typical random process of Gaussian distribution, and the same is true of sampling treated shale. On this basis a formula is given for the number of samples that must be taken to obtain a result of given accuracy. The method of determining the number of samples is then explained. The formula is only applicable if the sample material is uniform, and it is considered that coke-ash residue conforms to this requirement, indeed it is more uniform than coal and shale. The formulas given are only valid provided that the distribution for shale residue is indeed Gaussian. This point was checked and a graphical comparison is given

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96-3-9/26

The basis for standards for sampling residues of the gas shale and shale treating industries.

between experimental results and the theoretical Gaussian curve. At first sight agreement appears to be unsatisfactory, but calculations are given which show that it is in fact satisfactory. In order to determine the frequency of sampling generator-ash the same methods may be used as in the case of coke-ash residues. The generator-ash contains slaked lime and cannot be dried or it would blow about. In the wet condition it will not pass fine sieves. Sampling experiments are described, a considerable number of samples were taken and the uniformity was determined. It is recommended that primary tests on generator-ash should be based on not less than 25 samples, and when the generator is not working normally this number should be doubled. There are 1 figures, 1 table and 5 literature references (Russian).

ASSOCIATION: All-Union Institute for Shale Processing.  
(Vsesoyuznyy Institut Po Pererabotke Slontsev).  
AVAILABLE: Library of Congress.

Card 2/2

BAKLAGIN, A.I., kand. tekhn. nauk; VELENTSEY, Ye.W., inzh.; SOLBOLEVA, N.P.,  
inzh.

Basis for standards for sampling bottom residues in the shale-gas  
and oil-shale refining industries. Teploenergetika 5 no.3:33-36  
Mr '58. (MIRA 11:4)

1. Vsesoyuznyy institut po pererabotke slantsev.  
(Oil shales) (Ash (Technology))

ZHUKOVA, N.N.; VELENTSEY, Ye.V.

Rapid method for analyzing mineral CO<sub>2</sub> in shales. Trudy VNIIPS  
no.3:116-119 '55. (MIRA 8:12)  
(Baltic Sea region--Oil shales) (Hydrocarbons)

1. Title, No. 1.

"Effect of Azotobacter on the Growth of Oaks and Mycorhyza Formation." Cand Biol Sci, Moscow Order of Lenin State U imeni M. V. Lomonosov, Moscow, 1955. (KL, No 16, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

VELERSHTEYN, A. L.

A. L. Velershteyn, Avtomaticheskoye telefonnyye stantsii (ATS) [Automatic Telephone Exchanges (ATX)], Gosenergoizdat, a set of 12 colored charts.

The charts show; the design of the ShI-11 and DShI step-by-step finders used in institutional automatic telephone exchanges, regulations and lubrication of critical parts of the DShI finder, skeleton diagrams of the principle of construction of the ten-step ATX system for 100 numbers, and for 1,000 numbers, and a design breakdown of the institutional ATX.

The charts may serve as a training aid for the study of institutional ATXs at institutes and technical schools, and for improving the skill of communications personnel in industry.

SO: U-6472, 12 Nov 1954

VELERSHTEYN, A.L.

[Automatic exchange; diagrams for special training] Avtomaticheskie  
telefonnye stantsii; uchebnye tablitsy. Moskva, Gos. energ. izd-vo, 1953.  
12 illus. (MLRA 7:6)  
(Telephone, Automatic)



VFLEISHTEYN, A. I.

Automatic telephone exchanges; diagrams for training. Moskva, Gos. energ. izd-vo, 1953.  
12 tables (54-37850)

TK6211.V4

1. Telephone stations.
2. Telephone, Automatic.

VALERSHTEIN, A.L.

Avtomaticheskoye Telefonnyye Stantsii (Automatic Telephone Exchanges) Uchebnyye  
Tablitsy. Moskva, Gosenergoizdat, 1953.  
I v. of 12 Diagr. (Loose)

SO: N/5  
744.764  
.v4

VELERSHTEYN, Al'bert L'vovich; BELOUS, B.P., redaktor; SKVORTSOV, I.M.,  
tekhnicheskii redaktor.

[Installation of automatic telephones in industry and in offices]  
Montazh avtomaticheskikh telefonnykh stantsii na predpriatiakh i  
v uchrezhdeniakh. Moskva, Gos. energ. izd-vo, 1954. 150 p.  
(Telephone, Automatic) (MIRA 8:1)

VELERSHTEYN, A. P.

"Assembly of Automatic Telephone Exchanges in Concerns and Establishments,"  
Gosenergizdat, Moscow, 1954. 151 pp.

SAVINOV, G.V. [deceased]; VELERSHTEYN, R.A.

Use of electronic analog computers in some extremum problems. Vest.  
Mosk. un. Ser. 1: Mat., mekh. 17 no.1:60-67 Ja-F '62.

(MIRA 15:1)

1. Kafedra prikladnoy mekhaniki Moskovskogo universiteta.  
(Electronic analog computers)

3  
SAVINOV, G.V., KRUSHINSKIY, L.V., FLESS, D.A., VELERSHTEYN, R.A.

"Experience in mathematical modelling of the relationship between  
the processes of excitation and inhibition."

Report submitted, but not presented at the 22nd International  
Congress of Physiological Sciences.  
Leiden, the Netherlands 10-17 Sep 1962

ACCESSION NR: AT4041982

S/2582/64/000/011/0011/0024

AUTHOR: Savinov, G. V. (Deceased) (Moscow); Krushinskiy, L. V. (Moscow); Fless, D. A. (Moscow); Yelershteyn, R. A. (Moscow)

TITLE: The study of relations between the processes of stimulation and inhibition in a nervous system by means of mathematical simulation

SOURCE: Problemy\* kibernetiki, no. 11, 1964, 11-24

TOPIC TAGS: stimulation process, inhibition process, parabiologic phase, mathematical model, protective inhibition, nonlinear amplifier, nervous system

ABSTRACT: This article deals with the use of mathematical simulation to study the relationships between the processes of stimulation and inhibition in the nervous system. On the basis of work by N. Ye. Vvedenskiy, I. P. Pavlov, L. V. Krushinskiy, D. A. Fless, and others on the developing of parabiologic phases and the detailed analysis of parabiologic phases in rats, hypotheses are presented concerning the nature of the relationships between the stimulation and inhibition

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ACCESSION NR: AT4041982

processes. The authors consider that development of parabiologic phases in rats is the result of increased stimulation induced by the action of an acoustical stimulant which produces the process of protective inhibition. Curves are presented which characterize the variation of the stimulation and inhibition process, as well as the interaction of these processes. For the verification a mathematical model is constructed for verifying the relationships described. The block diagram of the model consists of two circuits: the first, in which the stimulant (input signal) causes the reaction (output signal), contains an amplifier with a nonlinear characteristic indicating the limiting part of the inhibition; the second is a feedback circuit in which the stimulation signal is amplified. The interaction of these circuits explains the relationships described above. Graphs are used to portray the performance of the amplifier with nonlinear characteristics for various phases. The circuits comprising the model are analogous to the circuits in a nervous system. [Abstractor's note: This article is a longer version of the article published by the same authors in: Biologicheskiye aspekty kibernetiki; sbornik rabot. Ed. by A. M. Kuzin and others. Moscow, Izd-vo AN SSSR, 1962, 92-103.] Orig. art. has: 16 figures.

Card 2/3



ACCESSION NR: AT4041982

ASSOCIATION: Nauchnyy sovet po kompleksnoy probleme Kibernetika Akademii nauk  
SSSR(Scientific Council on Complex Problems of Cybernetics, Academy of Sciences,SSSR)

SUBMITTED: 26May62

ATD PRESS: 3075

ENCL: 00

SUB CODE: LS,MA

NO REF SOV: 012

OTHER: 002

Card 3/3

16.6800(1024,1250,1329) 16.6500

33759  
S/055/62/000/001/006/007  
D299/D303

AUTHORS: Savinov, G. V. (deceased), and Velerishteyn, R. A.

TITLE: Use of electronic analog computers in solving extremal problems

PERIODICAL: Moskva. Universitet. Vestnik. Seriya I. Matematika, Mekhanika, no. 1, 1962, 60-67

TEXT: A method is proposed for reducing quadratic forms to the principal axes by means of analog computers. The quadratic form  $A(x, x)$  is reduced to principal axes by means of the linear orthogonal transformation

$$x_p = \sum_{q=1}^n l_{pq} y_q, \quad p = 1, \dots, n$$

(2)

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Use of electronic ...

$l_{pq}$  are the components of  $n$  orthonormalized unit vectors (the eigenvectors). The relation between the eigenvectors and the quadratic form  $A(x, x)$  is based on the principle of maximum (Weierstrass's Theorem). This principle is used in reducing quadratic forms to the principal axes by means of analog computers. For this purpose, the system of equations

$$\dot{x}_1 = \delta \left\{ k \frac{\partial A(x, x)}{\partial x_1} - \delta 2x_1 \right\}, \quad i = 1, \dots, n$$

where

$$\delta = \begin{cases} 0, & \text{if } \sum_{i=1}^n x_i^2 \leq 1 \\ 1, & \text{if } \sum_{i=1}^n x_i^2 > 1 \end{cases} \quad (5)$$

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is simulated by the computer. By choosing arbitrary initial conditions for  $x_1$ , one obtains (after a transient process) the first stationary point with coordinates  $l_{11}, l_{12}, \dots, l_{1n}$ . In order to obtain the following stationary point, it is necessary to adjoin to Eq.(5) the orthogonality condition and to search for the stationary point. This process is repeated until all the stationary points of the function  $A(x, x)$  are found. As an example, reduction to principal axes is considered of a quadratic form of two variables. In this case, system (5) becomes

$$\begin{aligned}\dot{x}_1 &= \gamma \{ k [2a_{11}x_1 + a_{22}x_2] - 2\delta x_1 \} \\ \dot{x}_2 &= \gamma \{ k [a_{12}x_1 + 2a_{22}x_2] - \delta 2x_2 \}\end{aligned}\quad (6)$$

where

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$$\delta = 0, \text{ if } x_1^2 + x_2^2 \leq 1$$

$$\delta = 1, \text{ if } x_1^2 + x_2^2 > 1$$

Simulating system (6) for  $a_{11} = 1.09$ ,  $a_{12} = 0.9$ ,  $a_{22} = 0.61$ , one obtains the first stationary point with coordinates  $l_{11} = +0.9$ ,  $l_{12} = 0.50$  (with  $\gamma = 1$ ,  $k = 1$ ). From the orthogonality condition one obtains  $x_2 = -\frac{l_{11}}{l_{12}} x_1$ . Substituting in this equation the values for the first stationary point, and introducing  $x_2$  in system (6), one obtains the equations

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$$\dot{x}_1 = 0,34x_1 - 2\delta x_1$$

$$\dot{x}_2 = -0,58x_1 - 2\delta x_2$$

Simulation of this system yields the second stationary point. A block-diagram of the computer is shown. The character of the transient processes is shown in shadowgraphs. Further, a quadratic form of 3 variables is considered. A verification by the orthogonality conditions showed that the results were obtained to within an accuracy of about 1%. In conclusion, analog computers can be used with success in solving certain extremal problems. There are 6 figures and 3 non-Soviet-bloc references (including 2 translations). The reference to the English-language publication reads as follows: I. B. Pyne, Trans. Amer. Inst. Electr. Engrs. Part I, 75, 1956.

Card 5/6

Use of electronic ...

33759  
S/055/62/000/001/006/007  
D299/D303

ASSOCIATION: Kafedra prikladnoy mekhaniki (Department of Applied Mechanics)

SUBMITTED: May 3, 1961

Card 6/6

BORISENOK, I.T.; GENEROZOV, M.N.; YEREMEYEV, N.V.; KARAMYSHKIN, V.V.; KUZOVKOV, N.T.; BORISENOK, I.T.; KULIKOVSKAYA, N.V.; SAVINOV, G.I., kand.fiz.-mat. nauk, dots. [deceased]; PIROGOV, I.Z.; Prinimali uchastiye: BALAYEVA, I.A.; BALAKIN, B.M.; BELYAYEVA, G.M.; BELYAKOV, V.I.; VELERSHTEYN, R.A.; ZHARKOV, G.M.; KOROLEVA, V.Ye.; LITVIN-SEDOY, M.Z.; POPOV, A.I.; PRIVALOV, V.A.; STUKALOVA, L.M.; CHISTYAKOV, A.I.; SAVVIN, A.B., red.; CHISTYAKOVA, K.S., tekhn. red.

[Laboratory work in theoretical and applied mechanics] Laboratornyy praktikum po obshchei i prikladnoi mekhanike. Moskva, Izd-vo mosk. univ. 1963. 233 p. (MIRA 16:12)

1. Kafedra prikladnoy mekhaniki Moskovskogo gosudarstvennogo universiteta (for Balayeva, Balakin, Belyayeva, Belyakov, Velershteyn, Zharkov, Koroleva, Litvin-Sedoy, Popov, Privalov, Stukalova, Chistyakov).

(Mechanics--Laboratory manuals)



VELES, Pavol, zast. doc. inz.; MICHLI, Jan, inz.

Dynamic tests of metals in the impact compression stress  
within the striking velocity to 300m/s. Sbor VST Kosice no. 2:  
41-56 '63.

1. Chair of metal Science, Metal Heat Treatment and Forming,  
Higher School of Technology, Kosice.

S/031/61/000/001/001/003  
A161/A129

**AUTHORS:** Miroshnichenko, L.A., Candidate of Geological and Mineralogical Science; Veleshina, T.A.

**TITLE:** Selenium and tellurium in polymetal deposits of Central Kazakhstan

**PERIODICAL:** Vestnik Akademii nauk Kazakhskoy SSR, no. 1, 1961, 15-21

**TEXT:** The work presents preliminary information on the results of wide-scale explorations started in 1955-1957. The explorations' purpose was mainly to determine the minerals collecting selenium and tellurium and the regularities of their distribution in different genetic types and formations. The data for this preliminary information was gathered from the authors' own collections and from the Geological Museum of the AS KazSSR, as well as from single samples from the galenites of the Dzhezkazgan (collected by T.A. Satpayeva) and Gul'shad deposits (K.S. Gazizova). The presence of selenium and tellurium in Kazakhstan has practically not been studied before, though data on other rare earth elements (indium, gallium, etc.) exist in some works. The authors gathered data from 27 deposits in Card 1/4

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Selenium and tellurium ...

all, belonging to the following ore formations: lead-zinc skarn formation with copper and bismuth; lead-zinc skarn; lead-zinc quartz veins; barite with predominant lead content; metasomatic with predominant lead content, and lead zinc. Galenite from other formations was also studied for comparison, viz., from copper, tungsten, molybdenum and gold deposits. A photo-colorimetric determination method (developed by staffers of IGN AS KazSSR T.A. Velashina and I.I. Gekht) was used for selenium as it cannot be revealed by the common spectral analysis. [Abstractor's note: No data concerning the method are given]. The investigated minerals were mainly four very common sulfide types: galenite, sphalerite, pyrite and chalcopryrite. Some behavior peculiarities of selenium and tellurium were noted which are possibly indirect indications of the laws of their formation, but the observations do not confirm the view of the majority of Kazakhstan explorers supposing isomorphism of tellurium and selenium with sulfur. They were spread unevenly in the studied sulfides. Individual microscopic inclusions may be supposed, but their determination is not possible at the time being. Natural tellurium compounds are known in single deposits (Kyzylespe), viz., tetradymite in sulfide ores, and montanite (earth crusts on tetradymite). The authors investigated galenites spectroscopically and noted that high

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concentrations of silver and bismuth were always accompanied with increased concentrations of selenium and tellurium. This may be a confirmation of N.D. Sindeyeva's view (who is specialist of the mineralogy and geochemistry of selenium and tellurium) who points out in her works that the two elements tend to form independent minerals in microscopic volumes (about 40 are known). The highest concentration found in the exploration was 0.05 - 0.08% in sulfides (by microchemical determination). Conclusions: 1) the major accumulations of Se and Te are in skarn deposits of lead-zinc ore with copper and bismuth. Polymetallic deposits with higher Se and Te content belong to the early and late Variscan epoch; no higher concentrations are present in Caledonian deposits; 2) all deposits with higher Se and Te content are situated at definite ore centers: Akchagyl, karagayla, Batystaus and Berkara; 3) the major collector of Se and Te or their compounds with bismuth and silver is galenite of skarn deposits with lead-zinc, copper and bismuth mineralization. Se and Te are rare in sphalerites, pyrites and chalcopyrites; in pyrrhotines and arsenopyrites they are absent; in separate minerals of the oxidization zone increased Se and Te contents are mainly present in deposits where the primary sulfides are enriched with Se and Te; 4) Te predominates over Se in the majority of galenite samples, Card 3/4

Selenium and tellurium ...

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in the mean proportion of 1:2; no abrupt variations in Se and Te content with depth was observed; they are present in galenite of a certain deposit type throughout, in variations that do not depend on the depth of sampling; 5) the authors are inclined to explain the higher Se and Te concentration in sulfides (particularly in galenites) by the presence of microscopic inclusions of natural compounds of Se and Te with bismuth (predominantly for tellurium) and silver (for selenium) and only insignificant influence of their isomorphism with sulfur. ✓

Card 4/4

107-103-19-9-2/11

AUTHORS: Velershteyn, R. A., Fel'dbaum, A. A. (Moscow)

TITLE: Development of an Approximately Optimum System by Means of an Electronic Simulator (Razrabotka pri pomoshchi elektronnoy modeli skhemy sistemy, blizkoy k optimal'noy)

PERIODICAL: Avtomatika i telemekhanika, 1958, Vol 19, Nr 9, pp 824-835 (USSR)

ABSTRACT: The problem to be solved by the automation control system of a continuously operating cold-rolling mill is to guarantee the constant thickness of the rolled stock at the end of the rolling mill. The main cause for the fluctuations in thickness at the withdrawal end is the different thickness of the rolled stock arriving at the rolling mill. Here means and ways for an optimum increase of the rapid action of a system with electric drive on the grounds of an increase in the efficiency of the drive and on the grounds of an approach of the system to an optimum system with respect to rapid action was investigated. Here such a possibility based on a few simple considerations is described which can be carried out by means of an electronic simulator. The method here suggested makes use of the theory of optimum systems of lower order for building up systems of higher order. The an-

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Development of an Approximately Optimum System by Means of an Electronic Simulator

Investigation of the model showed that by means of this method systems approximately equal to optimum systems can be built up. In the most complicated case the method must be completed by some physical ideas. The method is illustrated by an example. It consists in dividing the given part of the system into elements; for each element a simple optimum control part is built up. The input sensitivity of the element is adjusted so that the difference between its actual and optimum value tends towards zero. - The scheme and the selection of optimum values for the scheme parameters was tested at the electronic simulator. The experiments gave evidence of the following facts: In the construction of a non-linear control system with regard to the friction and all orders of the invariable part, but without regard to the clearance and the lag, it became evident that as compared with a linear control system the adjustment time is lowered by a factor of 2,6 and the frequency band transmitted by the system becomes larger by a factor of 2. When considering the clearance and the lag an additional control shunting the clearance must be introduced. Here also a good reaction process (adjustment) is obtained. This is achieved by a

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SOV/103-19-9-2/11  
Development of an Approximately Optimum System by Means of an Electronic Simulator

factor of 2,4 than in the linear adjustment. But it is worse than the adjustment process obtained in non-linear control in a system without clearance and lag. The non-linear control part here is rather simple. A respective device can also be constructed into a real automatic system for control of the pressing device. There are 14 figures and 9 references, 5 of which are Soviet.

SUBMITTED: June 20, 1957

Card 3/3



VELES, P.; HIDVIGHY, J.

Problems of measuring the conventional yield point of metals.  
Sbor VS" Kosice no.1:45-54 '63.

1. Department of Metals, Thermal Treatment, and Shaping of  
Metals, Higher School of Technology, Kosice. Submitted  
April 25, 1962.

CEPEL, J., doc., inz.; RITOK, Z., inz.; VELES, J., inz.

New methods of making cylindrical worms and leading screws with involute convex or concave profiles. Strojirenstvi 13 no.8:599-602 Ag '63.

1. Vysoka skola technicka, Kosice (for Cepel, Ritok) 2. Vihorlat, Snina (for Veles).

117 AND 118 REPAIR										119 AND 120 REPAIR																																																	
PROCESSING AND PROPERTY MODE																																																											
<div style="display: flex; justify-content: space-between;"> <span>RC</span> <span>B-1-8</span> </div> <p>Preparation of ammonium sulphate from gypsum by the action of ammonium carbonate solution. L. B. Tanyov and A. R. Vasyukovskiy (with S. M. Gurnavitskiy, G. I. Durrumov, and I. A. Rozasovskiy) (Ukrain. Chem. J., 1982, 7, (Sol.), 141-145).—Suspensions of <math>\text{CaSO}_4 \cdot 2\text{H}_2\text{O}</math> (I) in aq. <math>(\text{NH}_4)_2\text{CO}_3</math> (II) at 40° give 94% yields of <math>(\text{NH}_4)_2\text{SO}_4</math> and <math>\text{CaCO}_3</math>. (I) should be ground to pass through a sieve of 1600–2000 meshes per sq. cm.; the advantage is gained by finer subdivision. (I) and (II) should be present in theoretical proportions; the most convenient concn. of (II) is that corresponding to 13–14% <math>\text{NH}_3</math>. The addition of <math>(\text{NH}_4)_2\text{SO}_4</math> to the reaction mixture increases the yield by 3–5%. The yields obtained from (I) dehydrated at 200° are about 8% &lt; from the dihydrate.</p> <p style="text-align: right;">R. T.</p>																																																											
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PROCESSES AND PROPERTIES INDEX

Formation of copper peroxides in non-aqueous media. I. S. Tselarov and A. D. Yalovychuk (Ukrain. Chem. J., 1931, 6, [Sci.], 53-60).—A ppt. containing  $\text{CuO}_2$  and  $\text{CuO}$  in various proportions is obtained by the addition of an  $\text{Et}_2\text{O}$  extract of  $\text{H}_2\text{O}_2$  to a  $\text{MeOH}$  solution of  $\text{Cu}(\text{NO}_3)_2$ . The proportion of  $\text{CuO}_2$  in the ppt. increases with the relative  $\text{H}_2\text{O}_2$  concentration of the solution.  $\text{H}_2\text{O}_2$  is decomposed by the ppt., which also decomposes on consequent diminution in  $\text{H}_2\text{O}_2$  concentration, and  $\text{Cu}$  again passes into solution. The stability of the ppt. is not affected by the presence of  $\text{H}_2\text{O}$ .  $\text{Cu}$  compounds catalyzing the decomp. of  $\text{H}_2\text{O}_2$  form  $\text{CuO}_2$  as an intermediate product.

R. TRUSZKOWSKI.

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

1930-1939 1940-1949 1950-1959 1960-1969 1970-1979 1980-1989 1990-1999 2000-2009 2010-2019 2020-2029 2030-2039 2040-2049 2050-2059 2060-2069 2070-2079 2080-2089 2090-2099 2100-2109 2110-2119 2120-2129 2130-2139 2140-2149 2150-2159 2160-2169 2170-2179 2180-2189 2190-2199 2200-2209 2210-2219 2220-2229 2230-2239 2240-2249 2250-2259 2260-2269 2270-2279 2280-2289 2290-2299 2300-2309 2310-2319 2320-2329 2330-2339 2340-2349 2350-2359 2360-2369 2370-2379 2380-2389 2390-2399 2400-2409 2410-2419 2420-2429 2430-2439 2440-2449 2450-2459 2460-2469 2470-2479 2480-2489 2490-2499 2500-2509 2510-2519 2520-2529 2530-2539 2540-2549 2550-2559 2560-2569 2570-2579 2580-2589 2590-2599 2600-2609 2610-2619 2620-2629 2630-2639 2640-2649 2650-2659 2660-2669 2670-2679 2680-2689 2690-2699 2700-2709 2710-2719 2720-2729 2730-2739 2740-2749 2750-2759 2760-2769 2770-2779 2780-2789 2790-2799 2800-2809 2810-2819 2820-2829 2830-2839 2840-2849 2850-2859 2860-2869 2870-2879 2880-2889 2890-2899 2900-2909 2910-2919 2920-2929 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3930-3939 3940-3949 3950-3959 3960-3969 3970-3979 3980-3989 3990-3999 4000-4009 4010-4019 4020-4029 4030-4039 4040-4049 4050-4059 4060-4069 4070-4079 4080-4089 4090-4099 4100-4109 4110-4119 4120-4129 4130-4139 4140-4149 4150-4159 4160-4169 4170-4179 4180-4189 4190-4199 4200-4209 4210-4219 4220-4229 4230-4239 4240-4249 4250-4259 4260-4269 4270-4279 4280-4289 4290-4299 4300-4309 4310-4319 4320-4329 4330-4339 4340-4349 4350-4359 4360-4369 4370-4379 4380-4389 4390-4399 4400-4409 4410-4419 4420-4429 4430-4439 4440-4449 4450-4459 4460-4469 4470-4479 4480-4489 4490-4499 4500-4509 4510-4519 4520-4529 4530-4539 4540-4549 4550-4559 4560-4569 4570-4579 4580-4589 4590-4599 4600-4609 4610-4619 4620-4629 4630-4639 4640-4649 4650-4659 4660-4669 4670-4679 4680-4689 4690-4699 4700-4709 4710-4719 4720-4729 4730-4739 4740-4749 4750-4759 4760-4769 4770-4779 4780-4789 4790-4799 4800-4809 4810-4819 4820-4829 4830-4839 4840-4849 4850-4859 4860-4869 4870-4879 4880-4889 4890-4899 4900-4909 4910-4919 4920-4929 4930-4939 4940-4949 4950-4959 4960-4969 4970-4979 4980-4989 4990-4999 5000-5009 5010-5019 5020-5029 5030-5039 5040-5049 5050-5059 5060-5069 5070-5079 5080-5089 5090-5099 5100-5109 5110-5119 5120-5129 5130-5139 5140-5149 5150-5159 5160-5169 5170-5179 5180-5189 5190-5199 5200-5209 5210-5219 5220-5229 5230-5239 5240-5249 5250-5259 5260-5269 5270-5279 5280-5289 5290-5299 5300-5309 5310-5319 5320-5329 5330-5339 5340-5349 5350-5359 5360-5369 5370-5379 5380-5389 5390-5399 5400-5409 5410-5419 5420-5429 5430-5439 5440-5449 5450-5459 5460-5469 5470-5479 5480-5489 5490-5499 5500-5509 5510-5519 5520-5529 5530-5539 5540-5549 5550-5559 5560-5569 5570-5579 5580-5589 5590-5599 5600-5609 5610-5619 5620-5629 5630-5639 5640-5649 5650-5659 5660-5669 5670-5679 5680-5689 5690-5699 5700-5709 5710-5719 5720-5729 5730-5739 5740-5749 5750-5759 5760-5769 5770-5779 5780-5789 5790-5799 5800-5809 5810-5819 5820-5829 5830-5839 5840-5849 5850-5859 5860-5869 5870-5879 5880-5889 5890-5899 5900-5909 5910-5919 5920-5929 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8930-8939 8940-8949 8950-8959 8960-8969 8970-8979 8980-8989 8990-8999 9000-9009 9010-9019 9020-9029 9030-9039 9040-9049 9050-9059 9060-9069 9070-9079 9080-9089 9090-9099 9100-9109 9110-9119 9120-9129 9130-9139 9140-9149 9150-9159 9160-9169 9170-9179 9180-9189 9190-9199 9200-9209 9210-9219 9220-9229 9230-9239 9240-9249 9250-9259 9260-9269 9270-9279 9280-9289 9290-9299 9300-9309 9310-9319 9320-9329 9330-9339 9340-9349 9350-9359 9360-9369 9370-9379 9380-9389 9390-9399 9400-9409 9410-9419 9420-9429 9430-9439 9440-9449 9450-9459 9460-9469 9470-9479 9480-9489 9490-9499 9500-9509 9510-9519 9520-9529 9530-9539 9540-9549 9550-9559 9560-9569 9570-9579 9580-9589 9590-9599 9600-9609 9610-9619 9620-9629 9630-9639 9640-9649 9650-9659 9660-9669 9670-9679 9680-9689 9690-9699 9700-9709 9710-9719 9720-9729 9730-9739 9740-9749 9750-9759 9760-9769 9770-9779 9780-9789 9790-9799 9800-9809 9810-9819 9820-9829 9830-9839 9840-9849 9850-9859 9860-9869 9870-9879 9880-9889 9890-9899 9900-9909 9910-9919 9920-9929 9930-9939 9940-9949 9950-9959 9960-9969 9970-9979 9980-9989 9990-9999

DOBRE, Nelu (Buzau); CHITEI, Gh.A. (Dova); CAPITAN, Gh. I., prof. (Anina);  
GRIGORESCU, D. Nicolae (Hirsova); NISTOR, Gh.V. (Buzau); MIHALASCU,  
D., prof. (Pitesti); VELESCU, I. (Pitesti); DUMITRIU, C. (Focsani);  
SIMON, Petre (Tirgu Mures); BAERA, B., prof. (Paunesti); COJOCARU,  
Ion (Craiova)

Exercises and problems proposed for grades 5-8. Gaz mat B 16 no.1:  
39-42 Ja '65.

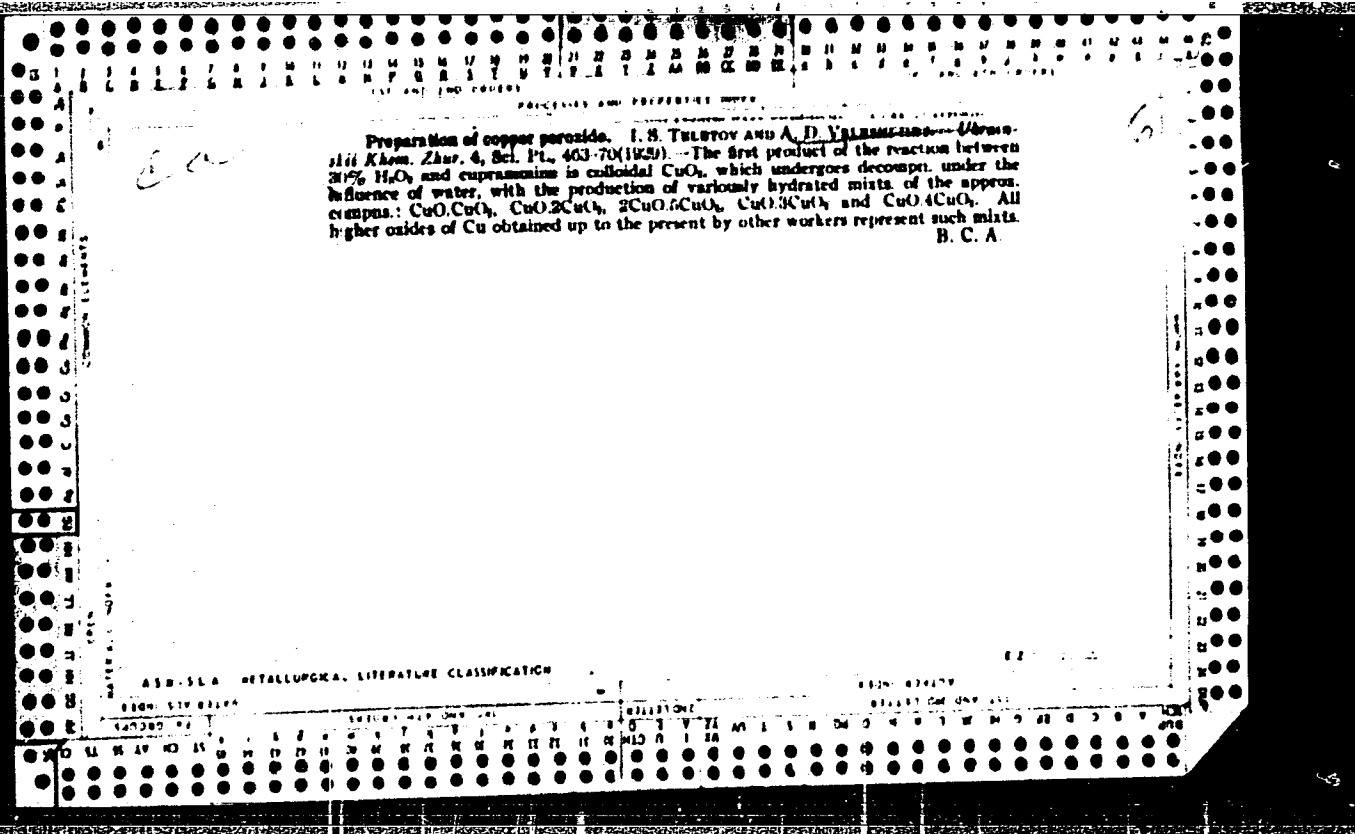
VASIL'YEV, K.N.; VELESHIN, A.S.; KOSENKOV, A.R.

Ionospheric effect of the solar eclipse of February 15, 1961 according to observations made in Moscow. Geomag. i aer. 1 no.2:277-278 Mr-"  
Ap '61. (MIRA 14:7)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya  
radiovoln AN SSSR.  
(Eclipses, Solar—1961) (Ionosphere)

CROSS-SECTION ELEMENTS		PROCESSING AND PROPERTIES INDEX		CROSS-SECTION ELEMENTS	
<p><i>ca</i></p> <p>The formation of copper peroxide in non-aqueous medium. I. S. TELITSKY AND A. D. VOLOSHIN. <i>Izvestiya Khim. Zhur.</i> 6, No. 11 (1961) - To 100 cc of anhyd. EtOH soln. of <math>\text{Cu}(\text{NO}_3)_2</math> cooled to <math>-10^\circ</math> was added dropwise 400 cc. of the cooled anhyd. <math>\text{Et}_2\text{O}</math> soln. of <math>\text{H}_2\text{O}_2</math>, the ppt. was quickly filtered off through a cooled funnel and washed with cooled anhyd. MeOH and then with cooled anhyd. <math>\text{Et}_2\text{O}</math> until all <math>\text{H}_2\text{O}_2</math> was removed, dried 1 hr. in a vacuum desiccator, and immediately analyzed. The active O was detd. by treating a weighed sample with an excess of titrated <math>\text{KMnO}_4</math>, acidified with <math>\text{H}_2\text{SO}_4</math>, then adding a slight excess of <math>\text{Na}_2\text{C}_2\text{O}_4</math>, and back titrating with <math>\text{KMnO}_4</math>. <math>\text{CuO}</math> was detd. by (1) igniting a weighed sample in a crucible after evap. with a few drops of <math>\text{HNO}_3</math>, to prevent a loss by puffing of <math>\text{CuO}</math> on heating, (2) igniting the hydroxide of Cu and Mn obtained in the volumetric detn. of active O. The 8 expts. produced samples of the formulas <math>\text{CuO} \cdot 3\text{CuO}</math> and <math>\text{CuO} \cdot 2\text{CuO}</math>. <i>Conclusions.</i> - <math>\text{CuO}</math> obtained from non-aq. solns. of Cu salts by the action of <math>\text{H}_2\text{O}_2</math> are similar in compn. to <math>\text{CuO}</math> obtained from aq. solns. (cf. C. A. 24, 5248). These compounds are unstable, and are considered as decomn. products of the initially formed <math>\text{CuO}_2</math>. The decomn. of <math>\text{H}_2\text{O}_2</math> by Cu salts indicates the formation of <math>\text{CuO}</math>. CHAS. BLANC</p>					
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>					
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10000 100000		10000 100000		10000 100000	





VELETA, JAROSLAV

CZECHOSLOVAKIA/Chemical Technology, Chemical Products and  
Their Application, Part 2. - Production and  
Separation of Gases.

H-14

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 33392.

Author : Jaroslav Veleta.

Inst : Not given.

Title : Production of Rare Gases.

Orig Pub: Chem. průmysl, 1956, 6, No 11, 460-462.

Abstract: Information about the use and production technology  
of rare gases is presented. The production of these  
gases in Czechoslovakia is discussed.

Card : 1/1

VELETA, J.

"Separating solid particles from liquids in hydrocyclones." Voda, Praha, Vol. 33, No. 11, Nov. 1953, p. 300.

SO: Eastern European Accessions List, Vol. 3, No. 11, Nov. 1954, L.C.

VELETA, Jaroslav

Further development of activities of the branch organization  
of the Czechoslovak Technical Society in Stalin Works. Nova  
technika no.10:476 0 '60.

VELINIC, S.; PRICA, N.

Designs of pipelines. n. 165. (Matica, Vol. 5, no. 6, June 1950, Sarreb, Yugoslavia)

SO: Monthly List of East European Accessions, (EAL), LC, Vol. 4, no. 1  
Jan. 1955, Uncl.

VELETIC, S

60. Pipeline designing. N. Prica and S. Velatic. *Nujta* (Yugoslavia), 1984, 6 (6), 163-74.—Article deals with the drying of natural gas and refers to the theoretical fundamentals of chemistry and technology necessary for calculation purposes. Various processes using liq and solid drying media are described, with special reference to the glycol and aluminum process. An automatically controlled aluminum plant is described in detail. (Authors' abstract.)

VELETIC. S.

Yugoslavia (430)

Technology

Heat exchangers in the petroleum industry.  
p. 186. NAFTA. Vol. 3, no. 7, July 1952.

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Congress. Vol. 2, no. 3, March 1953. UNCLASSIFIED

VELETSKAYA, N. N.

"Printsipy dramaturgii russkogo narodnogo teatra."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences,  
Moscow, 3-10 Aug 64.



VELETSKIY, A.N.

GALANIN, D.D., professor (g.Moskva); VELETSKIY, A.N. (g.Nikolayev).

Review of prof. N.N.Malov's article. Fiz. v shkole 15 no.1:43-46  
Ja-F '55. (MLRA 8:2)  
(Physics--Study and teaching) (Malov, N.N.)

VELETSKIY, G.A.

NAUMOV, V.I.; SIDOROV, N.G.; SAKHAROV, V.K. [deceased]; VELETSKIY, G.A.,  
inzhener, retsenzent; KARATEYEV, V.N., inzhener, retsenzent; MAZAROV,  
D.M., inzhener, retsenzent; TSVETNIKOV, V.I., kandidat tekhnicheskikh  
nauk, redaktor; KOCHUROV, N.I., inzhener, redaktor; FETISOV, P.I.,  
inzhener, redaktor; SOKOLOVA, L.V., tekhnicheskiy redaktor

[Operation, technical maintenance and repair of automobiles; reference  
materials] Eksploatatsiya, tekhnicheskoe obsluzhivanie i remont avto-  
mobilei; spravochnye materialy. Izd. 2-e, perer. i dop. Moskva, Gos.  
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 495 p. [Microfilm]  
(Automobiles) (MIRA 8:4)

*ca*

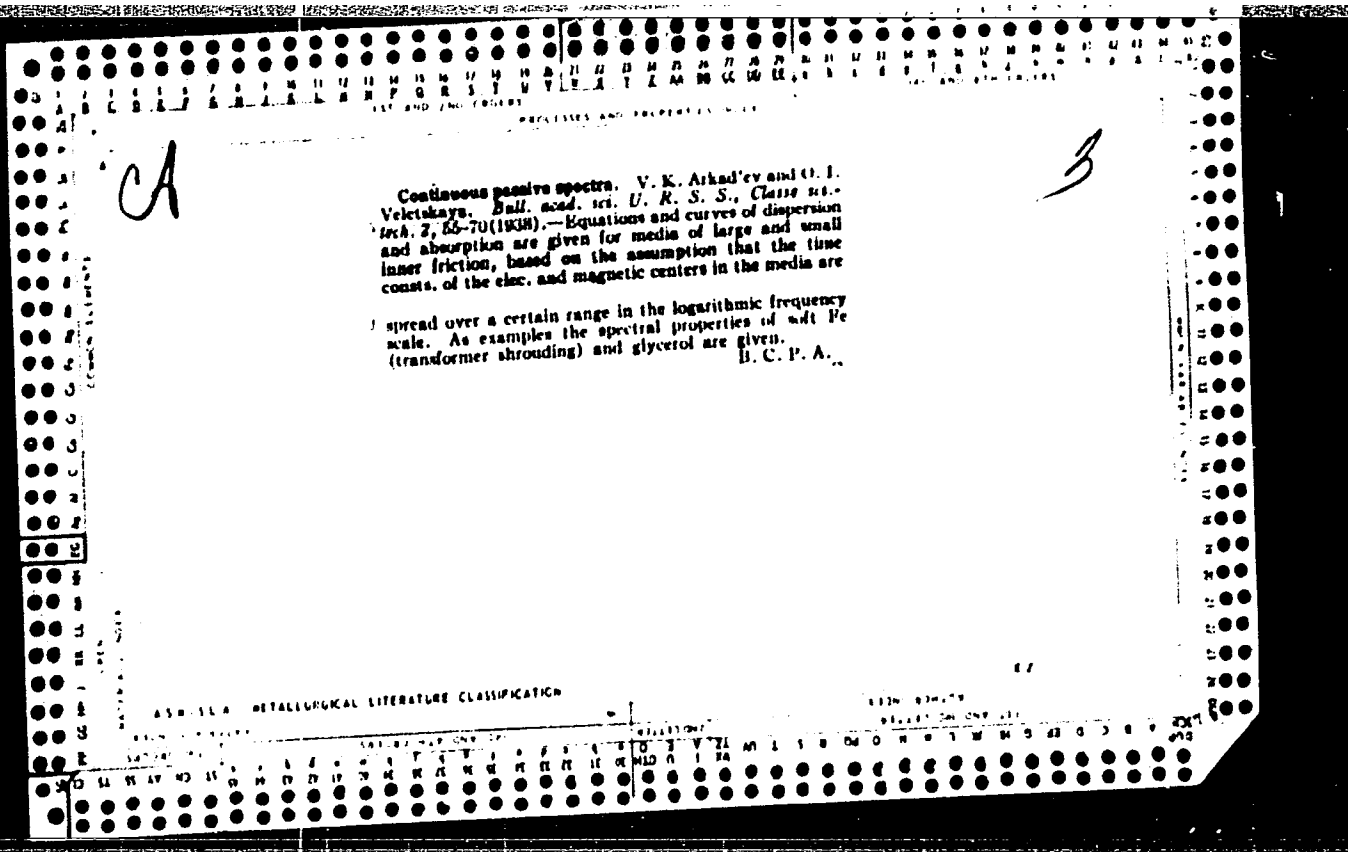
2

The application of Arkadiev's method of eliminating the skin effect in the investigation of dynamic magnetization curves. O. Velezskaya. Z. Physik 89, 540-75 (1930); cf. V. Arkadiev, Physik. Z. Sowjetunion 3, 1-24 (1931). -- Curves of magnetic permeability for sound and radio frequencies are analyzed. When the skin effect is eliminated they agree with the corresponding curves of the theory of magnetic viscosity. H. Swirles

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

EDITION 83-179

EDITION 83-179



VILETSKIY, L., inzh.

Mechanized application of pesticides in soil. Inform.bul. VSNKh  
no.4:29-31 Ap '65. (MIRA 18:5)

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VELETSKIY, I.M. [Velets'kiy, I.M.], inzh.

Attachment to the RZh-1,7 manure spreader. Mekh. sil'. hosp. 12  
no. 2:12-13 F '61. (MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy.  
(Fertilizer spreaders--Attachments)

L 5279-66 EWT(1)/EWA(j)/EWA(b)-2 JK

AOO NR: AP5022024

SOURCE CODE: UR/0286/65/000/014/0097/0097

AUTHOR: Veletskiy, I. N.

ORG: none

TITLE: Pneumatic nozzle for agricultural sprayers. Class 45, No. 173061  
[announced by the All-Union Scientific Research Institute of Plant Protection  
(Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 97

TOPIC TAGS: spray nozzle, agricultural machinery

ABSTRACT: This Author Certificate presents a nozzle for agricultural sprayers. The nozzle contains a cylindrical casing with a flat bottom and a lateral port. To produce better atomizing of working liquid, the nozzle is provided with a feeder tube in the casing. (see Fig. i).

Card 1/2

07010477

L 5279-66

ACCESSION NR: AP5122024

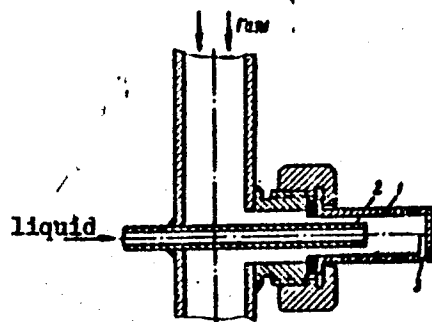


Fig. 1. 1- nozzle casing with a flat bottom; 2- feeder tube;  
3- lateral port

Orig. art. has: 1 figure.

SUB CODE: IE/ SUBM DATE: 19Mar64/ ORIG REF: 000/ OTH REF: 000

BC  
Card 2/2



VELETSKIY, I.N.

Economic methods for the use of herbicides. Zashch. rast. ot  
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VELETSKIY, I.N.

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Zashch. rast. ot vred. i bol. 7 nc.10:19 0 '62.

(MIRA 16:6)

1. Vsesoyuznyy institut zashchity rasteniy.  
(Weed control)

VELETSKIY, I.N., inzh.

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bol. 5 no. 8:23-23 Ag '60. (MIRA 13:12)  
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Aspirant

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(Bulgaria--Irrigation) (Lysimeter)